

Title (en)
METHOD FOR PRODUCING A PRINTED CIRCUIT BOARD HAVING THERMAL THROUGH-CONTACTS, AND PRINTED CIRCUIT BOARD

Title (de)
VERFAHREN ZUM ERZEUGEN EINER LEITERPLATTE MIT THERMISCHEN DURCHKONTAKTIERUNGEN, SOWIE LEITERPLATTE

Title (fr)
PROCÉDÉ DE GÉNÉRATION D'UNE CARTE DE CIRCUIT IMPRIMÉ AVEC DES TROUS D'INTERCONNEXION THERMIQUE, AINSI QUE CARTE DE CIRCUIT IMPRIMÉ

Publication
EP 3695691 B1 20240320 (DE)

Application
EP 18786659 A 20181008

Priority
• AT 508712017 A 20171012
• AT 2018060235 W 20181008

Abstract (en)
[origin: WO2019071283A1] In a printed circuit board (1), thermal through-contacts (19) are formed between the underside (A) and an upper side (B) of the substrate plate (10) of the printed circuit board by means of the following steps: applying a respective solder resist mask (21, 31) to the underside (A) and the upper side (B); applying solder to the underside (A) and reflow soldering the solder, wherein the solder penetrates into the boreholes (20) and forms convex menisci (26) protruding beyond the edge (22) of the respective boreholes on the underside (A); and creating regions (35) on the upper side (B), which are free from solder resist material, which are intended for contacting at least one electronic component (17) on the upper side and each of which comprise at least one of the thermal through-contacts. Subsequently, the upper side (B) can be provided with electrical components (17) on these regions (35). The first solder resist mask (21) has a respective region (23) that is free of solder resist on the underside around the edge of every borehole (20).

IPC 8 full level
H05K 1/02 (2006.01); **H05K 1/11** (2006.01); **H05K 3/34** (2006.01); **H05K 3/42** (2006.01)

CPC (source: AT EP KR US)
H05K 1/0206 (2013.01 - AT EP KR US); **H05K 1/113** (2013.01 - US); **H05K 3/0094** (2013.01 - AT KR US); **H05K 3/3452** (2013.01 - EP KR US); **H05K 1/112** (2013.01 - AT US); **H05K 1/113** (2013.01 - EP KR); **H05K 3/341** (2013.01 - AT EP KR); **H05K 3/3452** (2013.01 - AT); **H05K 3/42** (2013.01 - AT EP KR US); **H05K 2201/09481** (2013.01 - AT KR US); **H05K 2201/09563** (2013.01 - AT KR US); **H05K 2201/09572** (2013.01 - EP KR US); **H05K 2201/09609** (2013.01 - EP KR US); **H05K 2201/09627** (2013.01 - EP KR US); **H05K 2201/09636** (2013.01 - EP KR US); **H05K 2203/043** (2013.01 - EP KR US); **H05K 2203/045** (2013.01 - AT EP KR US); **H05K 2203/0455** (2013.01 - AT EP KR US); **H05K 2203/1476** (2013.01 - EP KR US)

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